Upstream Summary Table Table: DocsIFUpstreamChannelTable	Upstream Downconverter LO  Modualtion Type  Channel Bandwidth	MHz	8	2100	400 QPSK 2100	800 16QAM 2100	2100	1600 16QAM 2100	2100	400 QPSK 2100	800 QPSK 2100	2100	select	
	FEC factor  Transverter Offset		325 b		135.625 c	135.625 a	135.625 a	35.625 b	35.625 b	2135.625 a	2135.625 c	2135.625 b	-bandwidth/1.25	
	Data Rate Symbol Rate					640 2560				320 640			≃bandwidth/1.25	if QPSK=2*symbo
	WMTS input Frequency WMU output Frequency	-								20.075			=RF Freq-Upstream LO =RF Freq-transverter offs	loqui
	RF Band Bottom	-	8		1		1	1		55.70 2155.50		1		
	RF Band Top	MHz	1	2150.30	ı	1	ł	1	1	2155.90	1	1		

downstream	assume 64QAM and 6 MHz as	reference			
	required S/N for 10^-6		27	21.5	13.5
	Modulation	64 (	QAM	16 QAM	QPSK
		Bandwidth			
Downstream		6000	0.0	5.5	13.5
		2000	4.8	10.3	18.3
		1000	7.8	13.3	21.3
Up Stream	assume 16 QAM and 2 MHz as	reference			
	required S/N for 10^-6			21.5	13.5
	Modulation			16 QAM	QPSK
		Bandwidth			
		3200		0.0	8.0
		1600		3.0	11.0
		800		6.0	14.0
		400		9.0	17.0
		200		12.0	20.0

Figure 2

Table: DocsIFUpstreamChanneTable	Channel Bandwidth  RF Frequency  Sector	MHz	2153.00	2150.20	2150.50	2151.10	2152.30	2153.90	2155.10		2157.00	2157.60	Bold are operator inputs
	Modualtion Type		QPSK	200 16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	QPSK	QPSK	QPSK	select
	Upstream Downconverter LO	MHz	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	
	FEC factor Transverter Offset	MHz	2135.625 b	2135.625 c	2135.625 c	2135.625 a	2135.625 a	2135.625 b	2135.625 b	2135.625 a	2135.625 c	2135.625 b	
	Symbol Rate	KHz	2560	160	320	640	1280	1280	640	320	3	320	=bandwidth/1.25
	Data Rate												
	WMU output Frequency	MHZ	17.375	14.575	14.875	15.475	16.675	18.275	19.475	20.075	21.375	21.975	=RF Freq-transverter offs
	WMTS input Frequency	MHz	53.00	50.20	50.50	51.10	52.30	53.90	55.10	55.70	57.00	57.60	=RF Freq-Upstream LO
	RF Band Bottom	MHz	2151.40	2150.10	2150.30	2150.70	2151.50	2153.10	2154.70	2155.50	2156.60	2157.40	=Rf Freq-(Bandwidth/2)
	RF Band Top	1	1		1	F	•	i		1	i	1	1

if 16QAM=4\*symbol

A modem's profile is made up of its Downstream and Upstream IfIndexes FEC factor is the type of FEC used for that profile

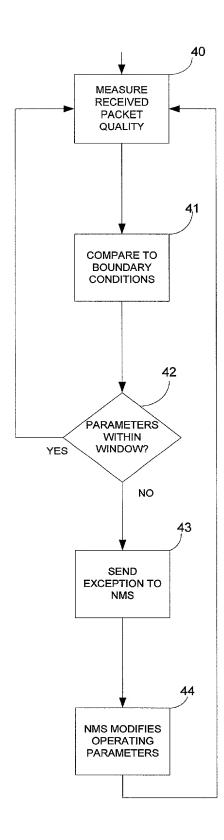


FIGURE 4

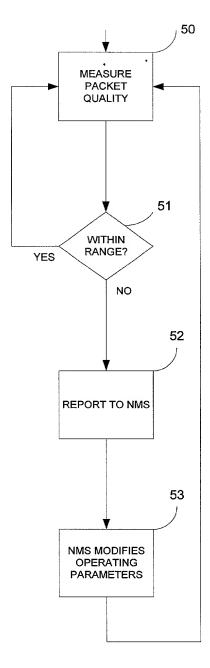


FIGURE 5